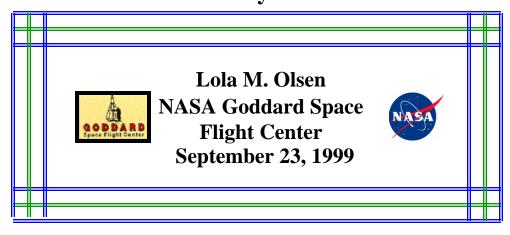
Earth Science Opportunities for Involvement through the Global Change Data and Information System

Presented at the

MU-SPIN Conference

bv





Global Change Data and Information System





Committee on
Environment and Natural
Resources(CENR)

National Science and Technology Council(NSTC)



Global Change Data and Information System(GCDIS)





An interagency collaboration that functions within the United States Global Change Research Program (USGCRP)



Data Management
Working
Group(DMWG)

What Does (7)



Global Change Data and Information System

Offer?



A data locator for the discovery of data sets worldwide through The Global Change Master Directory

[http://gcmd.nasa.gov].

Data policy segment supported by the grand ole' man of data policy, Dr. Les Meredith.



Information on current activities and publications of the USGCRP.



Support for the Global Change Research Information Office (GCRIO)

[http://www.,gcrio.org].



Answers to global change questions through "Ask Dr. Global Change".

A video to describe its functions.





Ask Dr. Global Change





Who is Dr. Global Change?



Who can expect replies to questions asked of Dr. Global Change?



What depth of response can be expected?







Discovery of Data through the Global **Change Master Directory (GCMD)**



"A source of information about data sets available in Earth and environmental sciences."

The DIF

The GCMD is based on the Directory Interchange Format.



The necessary set of fields to determine if a particular data set is a candidate for the desired application.

Multiple disciplinary capability.

Alive and evolving with new technology.

User and Author Input through the Interop Forum

Multiple tools for input of data set information.

Multiple translations of metadata for alternative applications.

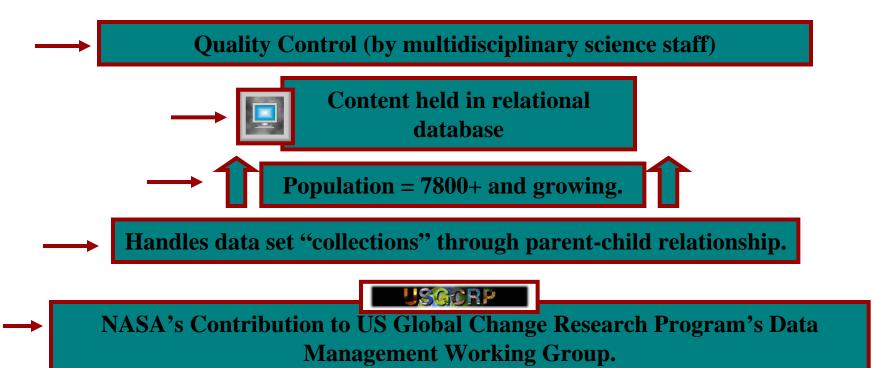






Why use the Global Change Master Directory?







International participation through Committee on Earth Observation Satellites-CEOS: International Directory Network.







Why use the Global Change Master Directory?(con't)





17,000 links within data sets
633 ftp links
New inventory capability through Related_URL links
1209+ links from Earth Science Pointers







Multiple Interface Options









DIF Content and modifications handled through Interop Forum.



DOCmorph to "morph" content to/from multiple formats.



Well-worked keywords for science parameters, sources, sensors, locations, campaigns/projects, data centers.



Attention to standards.







New with GCMD's Version 7



- Over 7800 Earth science data set descriptions from over 1000 data set providers now available through the IDN.
- Science Keyword Search now primary interface (results may be refined by location, instrument, or platform); all keyword definitions available to users.
- New JAVA-based Matrix Search Interface.
- All new Subscription Service.
- New Learning Center with student resources, teacher resources, FAQs, and links to important data sets.
- Improved Global Change Conference Calendar.







New with GCMD's Version 7





"Add-A-Link" feature - to make it simpler to include information about available data sites.



New and modified fields for searching: addition of Paleo_Temporal_Coverage for paleoclimate and geological data; multiple roles within Personnel field; Revision_History field; modifications to allow greater flexibility for input characters.



Enhancement of DOCmorph to handle transformations of metadata from one format to another in SGML.



Behind-the-scenes "streamlining" of code - providing opportunity for distributed metadata input by IDN.





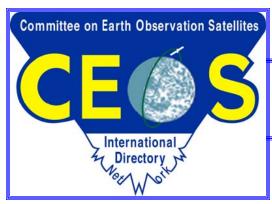
IDN Task Team Objectives

Permit rapid and efficient discovery, identification, location of Earth science data.

Share knowledge of data among CEOS participants to enhance collaborative work.

Plan for enhanced interoperability among CEOS IDN nodes.





Milestones



December, 1999



- Population goal: 9000 DIFs.

Spring, 2000



- -MD8 system design complete;
- -MD7 update if needed.

Fall, 2000



- MD8 released.

December, 2000



- Population goal: 12,000 DIFs.

Spring, **2001**



- MD9 design completed.

Fall, 2001



- MD9 released.

December, 2001



- Population goal: 18,000 DIFs.

